

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method to create an image to deploy to client computers that communicate over a network, comprising:

installing a first program with a base computer, having a local device, wherein the base computer is adapted to access [[to]] a shared folder accessible to the client computers over a network, wherein installing the first program on the base computer adds shared application components including executable files for the first program to the shared folder and adds local application components of the first program to the local device used by the base computer, and wherein installing the first program enables the base computer to run the first program by accessing the shared application components and local application components of the first program in the shared folder and in the local device;

creating an image of the local device of the base computer including the local application components of the first program; [[and]]

providing the image to the client computers to apply the local application components of the first program to local devices of the client computers, wherein applying the image to the local devices of the client computers enables the client computers to access the shared application components in the shared folder to run the first program, wherein the clients execute the local application components and the shared application components to run the first program;

installing a second program on the base computer to the shared folder, wherein installing the second program adds files for the second program to the shared folder and modifies memory of the base computer, and wherein installing the second program enables the base computer to run the second program by accessing the program files in the shared folder;

determining writes to the base computer memory during installation of the second program on the base computer; and

providing the determined writes to the client computers to apply to the client computers, wherein the writes applied to the base computer memory during the installation of the second program are applied to the client computers, and wherein applying the writes to the client

computers enables the client computers to access the second program files in the shared folder to run the second program.

2. (Currently Amended) The method of claim 1, wherein installing the first program on the base computer modifies configuration settings for the base computer stored in the local device and adding files to the local device.

3. (Canceled)

4. (Currently Amended) The method of claim 1, further comprising:
setting the shared folder to read-only after installing the first program to the shared folder.

5. (Currently Amended) The method of claim 1, wherein the image includes a driver that when loaded into the client computers causes the client computers to perform:
intercepting a write request to a requested shared file in the shared folder;
generate a mapping of the shared file to a local copy of the shared file in the local devices of the client computers; and
applying the write to the local copy of the shared file in the local devices.

6. (Original) The method of claim 1, wherein the image includes a driver that when loaded into the client computers causes the client computers to perform:
intercepting a read request to a requested shared file in the shared folder;
determining whether there is a mapping of the requested shared file to a local copy of the requested shared file;
accessing data for the read request from the local copy of the requested shared file in response to determining that there is the mapping of the requested shared file to the local copy;
and
accessing data for the read request from the requested shared file in the shared folder over the network in response to determining that there is no mapping of the requested shared file to the local copy.

7. (Currently Amended) ~~A method for accessing shared files in a shared folder over a network, comprising:~~ The method of claim 1, further comprising:

enabling access to the shared ~~folders~~ folder accessible over the network, wherein a shared file directory structure comprises a file directory structure of the shared folder ~~folders~~;

intercepting a write directed to a target shared file comprising one of the shared files in ~~one of~~ the shared folders;

determining whether there is a mapping of the target shared file in the shared folder to a local copy of the target shared file in a local folder in the local device;

generating a mapping of a file directory structure including the target shared file to a local copy of the file directory structure including a local copy of the target shared file in the local device in response to determining that there is no mapping of the file directory structure of the target shared file to the local copy of the target shared file in the local device, wherein the local copy of the file directory structure provides a partial view of the shared file directory structure if target shared files in the shared file directory structure have not been accessed; and

applying the write to the local copy of the target shared file.

8. (Previously Presented) The method of claim 7, wherein the write to the local copy in the local device includes only a portion of the target shared file, wherein the target shared file and the local copy of the target shared file comprises a plurality of segments, and wherein applying the write comprises:

applying the write to update at least one of the segments of the local copy of the target shared file.

9. (Original) The method of claim 7, further comprising:
receiving a read request to a requested shared file in the shared folder;
determining whether there is a mapping of the requested shared file to a local copy of the requested shared file;

accessing data for the read request from the local copy of the requested shared file in response to determining that there is the mapping of the requested shared file to the local copy;
and

accessing data for the read request from the requested shared file in the shared folder over the network in response to determining that there is no mapping of the requested shared file to the local copy.

10. (Canceled)

11. (Previously Presented) The method of claim 9, wherein the accessed data comprises one of a plurality of segments of the requested shared file, and wherein copying the accessed data to the local copy of the requested shared file comprises copying the accessed segment to the local copy of the shared file in the local device.

12. (Original) The method of claim 11, wherein the read request is for requested data in one of the segments of the requested shared file, further comprising:

determining whether the local copy of the requested shared file includes the segment having the requested data in response to determining that there is the mapping of the requested shared file to the local copy;

accessing data from the segment including the requested data in the requested shared file in the shared folder over the network;

returning the requested data from the accessed segment; and

storing the accessed segment in the local copy of the requested shared file.

13. (Original) The method of claim 12, wherein storing the accessed segment in the local copy further comprises:

determining whether the local copy includes data for the accessed segment;

applying the data in the local copy to the accessed segment to form a modified segment in response to determining that the local copy includes data for the accessed segment;

storing the modified segment in the local copy in response to forming the modified segment; and

storing the accessed segment in the local copy in response to determining that the local copy does not include data for the accessed segment.

14. (Currently Amended) A system for creating an image to deploy to client computers that communicate over a network, comprising:

a base computer, having a local device and adapted to access a shared folder over a network, wherein a plurality of client computers are additionally adapted to access the shared folder over the network;

[[an]] a first installation program adapted to be executed in the base computer to add files for a first program to the shared folder, wherein the first installation program modifies the local device to ~~add~~ add shared application components including executable files for the first program to the shared folder and add local application components of the first program used by the base computer to the local device to enable the base computer to run the first program by accessing the shared application components and local application components of the first program in the shared folder and in the local device;

an image creation program adapted to create an image of the local device of the base computer including the local application components of the first program; [[and]]

a deployment program adapted to communicate the image to the client computers over the network to apply the local application components of the first program to local devices of the client computers, wherein applying the image to the local devices of the client computers enables the client computers to access the shared application components in the shared folder to run the first program, wherein the clients execute the local application components and the shared application components to run the first program;

a second installation program adapted to install a second program on the base computer to the shared folder, wherein installing the second program adds files for the second program to the shared folder and modifies memory of the base computer, and wherein installing the second program enables the base computer to run the second program by accessing the program files in the shared folder;

an incremental package program adapted to determine writes to the base computer memory during installation of the second program on the base computer; and

an incremental deployment program adapted to provide the determined writes to the client computers to apply to the client computers, wherein the writes applied to the base computer memory during the installation of the second program are applied to the client

computers, and wherein applying the writes to the client computers enables the client computers to access the second program files in the shared folder to run the second program.

15. (Currently Amended) The system of claim 14, wherein installing the first program on the base computer modifies configuration settings for the base computer stored in the local device and adding files to the local device.

16. (Canceled)

17. (Currently Amended) The system of claim 14, wherein the shared folder is set to read-only after installing the first program to the shared folder.

18. (Previously Presented) The system of claim 14, wherein the created image includes a driver that when loaded into the client computers is adapted to cause the client computers to perform:

- intercepting a write request to a requested shared file in the shared folder;
- generate a mapping of the shared file to a local copy of the shared file in the local devices of the client computers; and
- applying the write to the local copy of the shared file in the local devices.

19. (Original) The system of claim 14, wherein the image includes a driver that when loaded into the client computers causes the client computers to perform:

- intercepting a read request to a requested shared file in the shared folder;
- determining whether there is a mapping of the requested shared file to a local copy of the requested shared file;
- accessing data for the read request from the local copy of the requested shared file in response to determining that there is the mapping of the requested shared file to the local copy;
- and
- accessing data for the read request from the requested shared file in the shared folder over the network in response to determining that there is no mapping of the requested shared file to the local copy.

20. (Currently Amended) ~~A system for accessing shared files in a shared folder over a network, comprising: a computer adapted to communicate with a local device coupled to the computer and adapted to communicate with the shared folder over the network, wherein the shared folder includes shared files, wherein a shared file directory structure comprises a file directory structure of the shared folders; The system of claim 14, wherein the client computers~~ include:

a network file system driver executed in the computer and adapted to access the shared folder over the network;

a local copy of the shared file in the local device;

a remote disk sharing driver executed in the computer and adapted to:

intercept a write directed to a target shared file comprising one of the shared files in ~~one of the shared~~ folder ~~folders~~; and

generate a mapping of a file directory structure including the target shared file to a local copy of the file directory structure including a local copy of the target shared file in the local device in response to determining that there is no mapping of the file directory structure of the target shared file to the local copy of the target shared file in the local device, wherein the local copy of the file directory structure provides a partial view of the shared file directory structure if target shared files in the shared file directory structure have not been accessed; and

a local file system driver executed in the computer and adapted to apply the write to the local copy of the target shared file.

21. (Previously Presented) The system of claim 20, wherein the intercepted write to the local copy in the local device includes only a portion of the target shared file, wherein the target shared file and the local copy of the target shared file comprises a plurality of segments, and wherein the local file system driver is adapted to apply the intercepted write by updating at least one of the segments of the local copy.

22. (Previously Presented) The system of claim 20,
wherein the remote disk sharing driver is further adapted to receive a read request to a requested shared file in the shared folder and determine whether there is a mapping of the requested shared file to a local copy of the requested shared file;
wherein the local file system driver is further adapted to access data for the read request from the local copy of the requested shared file in response to the remote disk sharing driver determining that there is the mapping of the requested shared file to the local copy; and
wherein the network file system driver is further adapted to access data for the read request from the requested shared file in the shared folder over the network in response to the remote disk sharing driver determining that there is no mapping of the requested shared file to the local copy.

23. (Canceled)

24. (Previously Presented) The system of claim 22, wherein the accessed data comprises one of a plurality of segments of the requested shared file, and wherein copying the accessed data to the local copy of the requested shared file comprises copying the accessed segment to the local copy of the shared file in the local device.

25. (Original) The system of claim 24, wherein the read request is for requested data in one of the segments of the requested shared file,

wherein the remote disk sharing driver is further adapted to determine whether the local copy of the requested shared file includes the segment having the requested data in response to determining that there is the mapping of the requested shared file to the local copy;

wherein the network file system driver is further adapted to access data from the segment including the requested data in the requested shared file in the shared folder over the network, return the requested data from the accessed segment, and store the accessed segment in the local copy of the requested shared file.

26. (Original) The system of claim 25, wherein the read request is for requested data in one of the segments of the requested shared file,

wherein the remote disk sharing driver is further adapted to determine whether the local copy of the requested shared file includes the segment having the requested data in response to determining that there is the mapping of the requested shared file to the local copy; and

wherein the network file system driver is adapted to access data from the segment including the requested data in the requested shared file in the shared folder over the network, return the requested data from the accessed segment, and enable the storing of the accessed segment in the local copy of the requested shared file.

27. (Currently Amended) An article of manufacture comprising a computer readable medium including code executed to cause operations to be performed, the operations comprising:

installing a first program with a base computer, having a local device, wherein the base computer is adapted to access [[to]] a shared folder accessible to multiple client computers over a network, wherein installing the first program on the base computer adds shared application components including executable files for the first program to the shared folder and adds local application components of the first program to the local device used by the base computer, and wherein installing the first program enables the base computer to run the first program by accessing the shared application components and local application components of the first program in the shared folder and in the local device;

creating an image of the local device of the base computer including the local application components of the first program; [[and]]

providing the image to the client computers to apply the local application components of the first program to local devices of the client computers, wherein applying the image to the local devices of the client computers enables the client computers to access the shared application components in the shared folder to run the first program, wherein the clients execute the local application components and the shared application components to run the first program;

installing a second program on the base computer to the shared folder, wherein installing the second program adds files for the second program to the shared folder and modifies memory of the base computer, and wherein installing the second program enables the base computer to run the second program by accessing the program files in the shared folder;

determining writes to the base computer memory during installation of the second program on the base computer; and

providing the determined writes to the client computers to apply to the client computers, wherein the writes applied to the base computer memory during the installation of the second program are applied to the client computers, and wherein applying the writes to the client computers enables the client computers to access the second program files in the shared folder to run the second program.

28. (Currently Amended) The article of manufacture of claim 27, wherein installing the first program on the base computer modifies configuration settings for the base computer stored in the local device and adding files to the local device.

29. (Canceled)

30. (Currently Amended) The article of manufacture of claim 27, wherein the operations further comprise:

setting the shared folder to read-only after installing the first program to the shared folder.

31. (Previously Presented) The article of manufacture of claim 27, wherein the image includes a driver that when loaded into the client computers causes the client computers to perform:

intercepting a write request to a requested shared file in the shared folder;
generate a mapping of the shared file to a local copy of the shared file in the local devices of the client computers; and
applying the write to the local copy of the shared file in the local devices.

32. (Previously Presented) The article of manufacture of claim 27, wherein the image includes a driver that when loaded into the client computers causes the client computers to perform:

intercepting a read request to a requested shared file in the shared folder;
determining whether there is a mapping of the requested shared file to a local copy of the requested shared file;

accessing data for the read request from the local copy of the requested shared file in response to determining that there is the mapping of the requested shared file to the local copy; and

accessing data for the read request from the requested shared file in the shared folder over the network in response to determining that there is no mapping of the requested shared file to the local copy.

33. (Currently Amended) ~~An article of manufacture comprising a computer readable medium including code executed to cause operations to be performed, the operations comprising:~~
The article of manufacture of claim 27, wherein the operations further comprise

enabling access to the shared folders folder including shared files accessible over a network, wherein a shared file directory structure comprises a file directory structure of the shared folder folders;

intercepting a write directed to a target shared file comprising one of the shared files in one of the shared folders;

determining whether there is a mapping of the target shared file in the shared folder to a local copy of the target shared file in a local folder in the local device;

generating a mapping of a file directory structure including the target shared file to a local copy of the file directory structure including a local copy of the target shared file in the local device in response to determining that there is no mapping of the file directory structure of the target shared file to the local copy of the target shared file in the local device, wherein the local copy of the file directory structure provides a partial view of the shared file directory structure if target shared files in the shared file directory structure have not been accessed; and

applying the write to the local copy of the target shared file.

34. (Previously Presented) The article of manufacture of claim 33, wherein the write to the local copy in the local device includes only a portion of the target shared file, wherein the target shared file and the local copy of the target shared file comprises a plurality of segments, and wherein applying the write comprises:

applying the write to update at least one of the segments of the local copy of the target shared file.

35. (Previously Presented) The article of manufacture of claim 33, wherein the operations further comprise:

receiving a read request to a requested shared file in the shared folder;

determining whether there is a mapping of the requested shared file to a local copy of the requested shared file;

accessing data for the read request from the local copy of the requested shared file in response to determining that there is the mapping of the requested shared file to the local copy; and

accessing data for the read request from the requested shared file in the shared folder over the network in response to determining that there is no mapping of the requested shared file to the local copy.

36. (Canceled)

37. (Previously Presented) The article of manufacture of claim 35, wherein the accessed data comprises one of a plurality of segments of the requested shared file, and wherein copying the accessed data to the local copy of the requested shared file comprises copying the accessed segment to the local copy of the shared file in the local device.

38. (Previously Presented) The article of manufacture of claim 37, wherein the read request is for requested data in one of the segments of the requested shared file, wherein the operations further comprise:

determining whether the local copy of the requested shared file includes the segment having the requested data in response to determining that there is the mapping of the requested shared file to the local copy;

accessing data from the segment including the requested data in the requested shared file in the shared folder over the network;

returning the requested data from the accessed segment; and

storing the accessed segment in the local copy of the requested shared file.

39. (Previously Presented) The article of manufacture of claim 38, wherein storing the accessed segment in the local copy further comprises:

determining whether the local copy includes data for the accessed segment;

applying the data in the local copy to the accessed segment to form a modified segment in response to determining that the local copy includes data for the accessed segment;

storing the modified segment in the local copy in response to forming the modified segment; and

storing the accessed segment in the local copy in response to determining that the local copy does not include data for the accessed segment.